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Attachment #1

Misc - 56
24 Nov 64

25X1 SUBJECT: Contract [redacted] Progress Review Meeting, 20 Nov 64 - PAR 202, Briefing Print Enlarger, and PAR 224, 3X - 15X Fluid Gate Enlarger

25X1 VISITORS: [redacted]

CONTRACTOR PERSONNEL: [redacted] 25X1

25X1 1. [redacted] has been assigned to monitor these projects,
25X1 replacing [redacted]

2. The discussion was a description of the proposed form of the development model and the concepts in the:

a. Negative transport system.

b. Print stock platen.

c. Lens design work for color and black-and-white operation.

d. Means for controlling magnification and obtaining the optimum lens focus.

e. Vibration isolation.

Questions were asked for clarification of various points in the description.

25X1 3. [redacted] will be asked to evaluate our proposal for a 10X Color Lens, PAR 230, for the 10-20-40X Precision Enlarger. He had a copy of the Final Report on PAR 3, 20X Color Lens and asked for comment. We discussed the proposal on PAR 230 including the reasons for making two independent optical designs and sample lenses for testing, and the differences between the lens design requirements in PAR 202, PAR 224, and those for the 10-20-40X Precision Enlarger.

ACTION ITEMS

4. None.

Declass Review by NGA.

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Attachment #2

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25X1

SUBJECT: Contract [redacted] Progress Review Meeting, 18 Nov 64 - PAR 204, Contact Chip Printer

25X1

VISITORS: [redacted]

CONTRACTOR PERSONNEL: [redacted]

25X1

1. Termination notice on this project was given in August 64. The occasion of the Review Conference was taken to verbally summarize activity and to demonstrate the breadboard model of the Stationary Arch Printer built on the project.

2. It is desirable for the contractor to provide a Project Termination Report.

ACTION ITEM

3. The contractor will supply estimate of total cost including a Project Termination Report.

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Attachment #3

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21 Nov 64

25X1 SUBJECT: Contract [redacted] Progress Review Meeting, 18 Nov 64 - PAR 205, Precision 4X Enlarger

25X1 VISITORS: [redacted]

CONTRACTOR PERSONNEL: [redacted] 25X1

1. Notice of deferment of this project was given in August 64. We took the occasion of the Progress Review Conference to verbally summarize our activity.

2. It is desirable for the contractor to provide a Project Deferment Report.

ACTION ITEM

3. The contractor will supply an estimate of total cost including a Project Deferment Report.

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25X1 SUBJECT: Contract [redacted] Progress Review Meeting, 19 Nov 64 -
PAR 206, Reversal Processing of High-Resolution Films

25X1 VISITORS: [redacted]

CONTRACTOR PERSONNEL: [redacted] 25X1

1. A review was made of the program from its first inception through all of the major intermediary phases to its present status. The major areas covered were:

a. The methods used to obtain the first series of resolution data (Ragdoll processor).

b. The conversion and checkout of the Grafton processor.

c. Investigations on the Sensitometric processor.

d. Application of the Sensitometric processor results to the Grafton processor operation.

e. Films processed on the Grafton.

f. Planned activity.

2. Several areas of particular interest to [redacted] were discussed in detail. These are listed below: 25X1

a. Briefing Boards - A relocation and relabelling of some of the descriptive symbols would make them more valuable and descriptive for his use.

b. Grafton Processor - A description of the processor's automatic control features and its adaptability to different processing situations was presented.

c. Resolving Power - Reasons for:

(1) Using targets of both polarities.

(2) Constructing new targets with smaller incremental differences between steps.

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(3) Having several people read the processed targets.

d. Image Material from Recent Grafton Operations - Comparative layouts of the image material were presented.

25X1

3. [redacted] expressed concern about the possibility that the design and fabrication of some pieces of equipment intended for reversal processing use might be progressing at too fast a rate to incorporate important findings from PAR 206 studies.

ACTION ITEM

4. Contractor to revise and relocate some briefing board symbols.

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25X1 SUBJECT: Contract [redacted] Progress Review Meeting, 19 Nov 64 - PAR 207, Definitive Study of Contact Printers

25X1 VISITOR: [redacted]

CONTRACTOR PERSONNEL: [redacted] 25X1

25X1 [redacted]

1. PAR progress activities were summarized covering:

a. Evaluation of measuring tools.

b. Use of high, low and medium contact test targets.

c. Half-tone screen masters.

2. Discussion on knife-edge-targets and Moire' patterns are covered in body of the subject reports under paragraph 8, 10b and 11k.

3. Rough drafts on briefing aids are to be sent to [redacted] 25X1 for approval prior to start of art work.

ACTION ITEM

4. Customer to obtain knife-edge-targets and schedule meeting.

5. Contractor to forward Moire' pattern prints and discussion of preparation.

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25X1

SUBJECT: Contract [redacted] Progress Review Meeting, 16 Nov 64 -
PAR 211, Microdensitometer Study of Effects of Processing

VISITORS: [redacted] 25X1

CONTRACTOR PERSONNEL: [redacted] 25X1

25X1 [redacted]

1. PAR 211 progress was reviewed. The following agreements were made:

a. Aerial photography should include from three to five types of scenes. Industrial sites, bridges over water, built-up areas and refineries are among the desired types.

b. Work will be initiated with available materials from a separate program, if possible.

c. Starting scale will be 1:80,000 with reduction conversion to 1:300,000 for other photography.

d. Enlargements will be made after customer examination of copies provided to him at the starting scale.

e. Ground resolution targets will be provided if possible.

f. Operational photography will not be used unless necessary, but may be requested.

g. One-inch squares of film are acceptable, since the resolution target camera cannot accommodate the larger films.

h. Stereo pairs are preferred if they can be provided.

i. Provide the customer with an estimate of the added cost for extending the study to a third scale (possibly the 1:25,000 in some separate program material). Specific scales are not yet completely defined.

2. Briefing aids were discussed and an updated specification sheet provided by the visitors for Briefing Boards, Viewgraphs and Tele-PrompTer slides. The need for customer approval of rough drafts prior

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to start of art work was stated by [redacted] 25X1

ACTION ITEM

3. Contractor to provide customer with estimate for study extension.

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25X1 SUBJECT: Contract [redacted] Progress Review Meeting, 17 Nov 64 - PAR 212, Color Acquisition System Review Study

25X1 VISITORS: [redacted]

CONTRACTOR PERSONNEL: [redacted] 25X1

25X1 [redacted]

1. Background and problems in the study of acquisition films were reviewed at the request of [redacted] benefit. Mr. 25X1
25X1 [redacted] had only recently been assigned to this project.

2. Specific comments affecting scope and direction of effort were as follows:

a. Customer is interested in acquisition materials below 5,000 feet, but not between 5,000 and 50,000 feet. Paragraph 10 on page 14 of the 8 September Quarterly Report is thus in error.

b. The customer would like us to supply him with information on the type of equipment and the conditions we have for viewing color films. This should include manufacturer-equipment identification.

3. Seven designs for briefing aids were reviewed and discussed:

a. A small chart was used to show the expected results with high and low-contrast color films at different acquisition altitudes, and the effects of atmospheric haze.

b. A chart design was reviewed which related choice of acquisition films to the values for contrast, exposure, density range and percent of recordable tone in aerial scenes.

c. The effect of choice of acquisition film on choice and quality of duplicates was represented by a third design.

d. Color stereo systems were charted to show the various possibilities with B & W (black-and-white) and low and high-contrast color pairs.

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e. A fifth chart summarizing tests with different duplicating systems was shown for one acquisition material.

f. Enlarging systems were treated exclusively by the sixth chart design to show the various grades of quality obtainable in working copies.

g. Resolution and tone were shown as separate measure of quality which could be calculated for available films used in enlarging systems.

25X1

4. [redacted] raised the question of whether calculated figures on quality should be used on charts.

5. Sketches of proposed charts will be provided to the customer.

ACTION ITEMS

6. None.

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25X1 SUBJECT: Contract [redacted] Progress Review Meeting, 19 Nov 64 - PAR 213, Color Reproduction System Review

25X1 VISITOR: [redacted]

CONTRACTOR PERSONNEL: [redacted] 25X1

25X1 [redacted]

1. Charts were used in reviewing PAR progress. The following items were discussed:

a. Selective attenuation at high altitude due to atmosphere.

b. Effects of altitude on choice of films.

c. Special color film contrast requirements to adjust for non-uniform attenuation.

d. Color curve typical for an available film.

e. Relationship of film choice to scene brightness, contrast and density ranges observable from high altitude.

f. Stereo combinations of color pairs and color and black-and-white pairs.

g. Enlargement systems.

h. Summary of duplicating and enlarging systems tested.

25X1 2. [redacted] looked at demonstration duplicates from mission originals. These duplicates were back-up material on topics 1f, 1g and 1h above.

25X1 3. [redacted] has agreed to confirm the currently understood aim for best quality in the duplicate data reduction copy rather than optimum quality in originals.

ACTION ITEMS

4. The customer will confirm that the intent of this project is to achieve maximum quality in the duplicate data reduction copies, not in the original.

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25X1 SUBJECT: Contract [redacted] Progress Review Meeting, 20 Nov 64 - PARs 214 and 215, RT-12 and RT-24

25X1 VISITORS: [redacted]

CONTRACTOR PERSONNEL: [redacted] 25X1

25X1 1. [redacted] has assumed responsibility for both PAR 214 and PAR 215.

2. Proposed briefing charts were discussed. Isometric view of RT-24 should explain how sheets are conveyed from air dryer to drum dryer. It should also indicate that catch baskets are used at the end of the drum dryer and/or air dryer to receive dried prints. The charts, showing the process cycles and solution flow diagrams, will be corrected and brought up to date. They will also show, schematically, the dryers for each machine. A valve chart will be included among the PAR 214 charts showing valves to be reset when changing from a negative to a reversal cycle.

3. Revised specifications and proposals for both processors were reviewed. These will be submitted for customer approval.

4. Preliminary Installation Engineering forms were discussed briefly and will be submitted to the customer.

25X1 5. [redacted] pointed out that the variable speed drives may fluctuate because of voltage variation they now experience at their facility. It was agreed that this can be corrected in the field if necessary by installing voltage regulators in the drive circuits. These circuits are three-phase, 208 volts, and carry a maximum load of 1,000 watts each. The circuits can be isolated.

6. Chemical supply to the machines will be drawn from existing supply loops. Supply lines will be run from the supply loops to flow meters furnished with equipment. The customer-equipment manufacturer interface will be at the rotometer panel connection.

7. An earlier request by the customer that we consider the use of hypo clearing agent in the PAR 215 processor was discussed. It was pointed out that hypo clearing agent is not recommended for use with continuous
25X1 processing equipment. [redacted] indicated that the recommendation would probably be accepted by the customer but that some further discussion with their people would be required.

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8. The customer was told that the processing machines were being designed to go into rooms 8 feet wide, 23 feet long and 7 feet 10 inches high. The customer representative agreed that these dimensions would be checked as soon as possible.

9. It was agreed that contractor personnel should visit the customer facility to discuss services required to operate the processors as soon as installation interfaces are complete.

25X1

10. [redacted] requested clearances for personnel involved in on-site work be forwarded at least one month in advance of anticipated visit.

ACTION ITEMS

11. Customer to specify action on paragraph 7.

12. Customer to confirm room dimensions (Paragraph 8).

13. Contractor to revise and update specifications and original proposals. (Paragraph 3).

14. Contractor to submit Preliminary Installation Engineering forms.

15. Contractor to submit new estimates to complete.

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25X1 SUBJECT: Contract [redacted] Progress Review Meeting, 18 Nov 64 - PAR 216, Lasers with Photo Materials

25X1 VISITOR: [redacted]

25X1 CONTRACTOR PERSONNEL: [redacted]

1. It was reported that the laboratory work on this project has been completed and preparation of the final report begun. Final report is scheduled to be completed by 15 Jan 65.

ACTION ITEM

2. Completion of final report.

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25X1 SUBJECT: Contract [redacted] Progress Review Meeting, 18 Nov 64 - PAR 217, Optimization of Lasers

25X1 VISITOR: [redacted]

25X1 CONTRACTOR PERSONNEL: [redacted]

1. Some of the energy level data given in the 30 Oct period report was discussed.

2. The customer is interested in a comparison of the performance of the Argon CW green light laser to our harmonic doubling system. As stated in the PAR 217 proposal on the Argon laser, we are requested to make a literature search for the above comparison.

25X1 3. [redacted] mentioned a recent article on laser beam uniformity. He will supply us with the details of the reference.

ACTION ITEM

4. Literature search by contractor on Argon CW laser.

5. Reference on laser beam uniformity by [redacted] 25X1

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25X1 SUBJECT: Contract [redacted] Progress Review Meeting, 19 Nov 64 - Briefing Boards

25X1 VISITORS: [redacted]

CONTRACTOR PERSONNEL: [redacted] 25X1

25X1 [redacted]

1. Copies of revised specifications for Briefing Boards were presented by the customer.

25X [redacted] indicated that the board material we have been using, although in accordance with the specifications, is lighter weight than he would like. A sample of the material used was given to [redacted] The customer will specifically request a different material if they wish us to change. 25X1

3. Briefing board titling instruction:

a. Each briefing board shall contain the PAR title at the upper left. The contractor will forward a suggested list of shortened PAR titles for approval.

b. Except for the case where there may be only one board and the PAR title is descriptive, each briefing board will also contain a sub-title identifying or describing the content of that board.

c. PAR numbers shall not appear on the briefing boards, except that, for purposes of identification, the PAR number may be pencilled lightly on the rear of the board with notations showing the particular number of a series and the total number in that series. Example:

(1) PAR 214: 1 of 5

(2) PAR 214: 2 of 5

(3) PAR 222: 1 of 1

4. Sketches of proposed briefing board designs will be forwarded to the responsible customer engineer for comment and approval prior to actual start of final art work.

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5. The following customer comments and constructive criticism were made to be used as guide lines in briefing board design:

a. Maximum distance for viewing a briefing board is 15 to 20 times the board diagonal. All lettering should be readable from this distance.

b. In order to avoid excessive screen illumination (which places emphasis on background rather than content) the use of colored or grey backgrounds should be considered.

c. Crowding of a briefing board should be avoided. Either reduce the content or if this is not possible, use several boards.

d. The use of color is encouraged.

(1) However, the idea that the color is conveying must be clear.

(2) Color differentiation must be possible at viewing distances specified in paragraph 5a.

6. Boards are to be shipped with opaque covering.

7. Specific comments on individual PARs may be found in the attached minutes of the individual PAR discussions.

8. TelePrompTer slide long dimension shall always be horizontal during projection.

9. Lettering may exceed sizes given in the current specification.

ACTION ITEMS

10. Submit list of PAR names (Paragraph 3a above).

11. Submit sketches of proposed Briefing Boards.

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25X1

SUBJECT: Contract [redacted] Progress Review Meeting - Miscellaneous:

a. Optimum Chip Film

b. Problems associated with waxed film

c. Discussion of the 10-20-40X Enlarger - Deferred (Uncleared visitor wanted to see the equipment)

25X1

VISITORS: [redacted]

25X1

CONTRACTOR PERSONNEL: [redacted]

1. Optimum Chip Film:

a. Film chips, 4 by 5 inch size, will be made from selected areas of films obtained from various acquisition systems. Both a 5427 and an 8430 type emulsion will be needed on 7 mil Estar support to provide a film chip material suitable for use with Types 4401, 4400 and 4404 acquisition films. A pelloid coating on the base of the support material will maintain the desired flatness of the chip. The emulsion characteristics of both 5427 and 8430 films as stated in the "Manual of Physical Properties, Aerial and Special Materials" were reviewed. In addition, it was stated that the resolution of Type 5427 duplicating film can be improved by ultraviolet printing techniques.

b. Identification, cutting and packaging of film chip materials were discussed. No actions or conclusions were reached, as these items will be reviewed more thoroughly in a later meeting at a contractor facility. Identifying the base and emulsion may be a problem in that notches or other identifying marks are not desired.

c. Uses of the chip include:

(1) Photo analysis.

(2) Mensuration.

(3) Convenient Storage.

d. Chip is to remain a self-supporting item, probably being packaged in a glassine envelope.

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2. Problems Associated with Waxed Film

a. The customer was concerned about the solubility of wax on film in liquid gate fluids. We pointed out that solubility is too low to expect wax removal and consequent spotting of the type described. Other causes of spotting were suggested, such as precipitates from aged Freon-TF and moisture condensate induced by rapid Freon evaporation. A further look at the problem will be taken by the customer.

b. The customer asked for and was given information on the amount of wax coated and the method of application used. Approximately .0012 grams of wax per square foot of film is applied by the same method used in a motion picture film lubricator. The customer was shown a picture of such a lubricator.

c. Use of lacquer was suggested as a possible means of protecting films from physical damage and microbiological attack. Lacquers are available which permit cleaning of the lacquered film surface or removal of the lacquer coating, using appropriate solvents.

25X1 d. [redacted] will supply further information on waxing and lacquering as requested.

ACTION ITEM

3. Contractor will supply further information on waxing and lacquering as requested.

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25X1 SUBJECT: Contract [redacted] Progress Review Meeting, 19 Nov 64 - Film Chips

25X1 VISITORS: [redacted]

CONTRACTOR PERSONNEL: [redacted] 25X1

25X1 [redacted]

25X1 1. [redacted] described the system requiring 4 by 5 inch sheets of stock base fine grain duplicating film.

DISCUSSION

2. The consensus was that products used should be on a 7 mil Estar base, probably containing a pelloid (gel coating on the back) to control curl.

3. Because of the differing original negative emulsions to be copies, two types of duplicating material might be required. For copies of 4401, Type 4427 was recommended. This is currently available. For copies of 4404, it was recommended that 8430 emulsion be supplied on 7 mil Estar base. A special order product would have to be established for this, but no serious problems are anticipated.

25X1 4. [redacted] estimate these products would have the following dimensional characteristics:

a. Humidity Amplitude: .0007 percent (base alone)
.0014 percent (film unprocessed)
.0012 percent (film processed)

b. Thermal coefficient: .0015 percent/degree F.

c. Processing change: Plus .02 percent to minus .02 percent (depending on type and rate of drying).

5. For optimum results, slow rather than fast drying was recommended.

6. Film stability will not be improved by holding product for a period of time prior to use.

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7. Commercial standards for the size of 4 by 5 inch sheet film are: 3 and 62/64 inch ± 1/64 inch by 4 and 62/64 inch ± 1/64 inch. This aim size will be satisfactory for this program, although the width tolerance may be too large. To minimize variation, order should specify "cut length from length". No further action will be taken unless a problem develops.

8. The sheet should not be embossed or notched. This also must be specified on the order.

9. It was agreed standard packaging can be used, at least initially. This will consist of 25 sheets, without interleaving paper, in a heat sealed bag. One sheet of paper and a stiffener board will be used inside the bag on the top and bottom of the stock. Four heat-sealed bags will be packed in a standard carton. Arrangement for different packaging can be made if the need develops.

25X1 10. [redacted] was given a data sheet on Type 8430 film and a box of 8 by 10 inch sheets for his trials.

25X1 11. [redacted] reported that film waxing was discussed in a previous meeting (see attachment #13).

ACTION ITEMS

12. None.

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